

State of Louisiana
Department of Transportation and Development (DOTD)

Materials and Testing Section Qualification Procedure
for
Qualified Products List 41

ASPHALTIC MATERIALS

MATERIAL SPECIFICATION REFERENCE:

DOTD Standard Specifications, Supplemental Specifications and Special Provisions, Section 1002, MS 164-002 (2/97) & MS 164-003 (4/98).

PRELIMINARY REQUIREMENTS:

Qualified Product Evaluation Form

The supplier shall submit a standard "Qualified Product Evaluation Form" to the DOTD Materials and Testing Section Coordinator listed below, along with a letter requesting evaluation for the Qualified Products List for each product.

Product Data Sheets

Include product data sheets to provide all pertinent information relative to the product to be evaluated; including, but not limited to, manufacturer's specifications, typical analysis and a Materials Safety Data Sheet (MSDS). Type and % polymer used in polymer modified asphalt cement. This information will be used for source approval and long term performance evaluation information.

Plant Inspection

Prior to approval of asphaltic materials, an inspection of the plant by DOTD Materials Laboratory is required. Storage, handling (including polymer modification processes, where applicable) and quality control of the material shall be approved by the Materials Engineer. For plant blended polymer modified asphalt cements, the complete blending and modification process must be approved at the plant before source approval will be given.

Certification and/or Test Reports

For asphalt cements, a temperature versus viscosity curve shall be furnished with recommended mixing and compaction temperatures.

For asphaltic materials submitted for evaluation, the supplier shall submit a notarized certificate of analysis reporting actual test results.

Sample (to be furnished at no cost to the Department)

The material shall be sampled in accordance with DOTD S201. The quantities required are as follows:

Asphalt Cements - 1 qt friction top can
Cutback Asphalts - 1 qt screw top can
Emulsified Asphalts - 1 gal. plastic bottle
Polymerized Asphalt Cements - 1 quart friction top can
Emulsified Polymerized Asphalts - 1 gallon plastic bottle
Polymer - 1 pint friction top can

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TEST REQUIREMENTS:

Laboratory Testing

Qualification samples shall be tested in accordance with the applicable test procedures shown in the attached specifications.

For plant blended polymer modified asphalt cements, qualification samples shall be taken during production of polymer modified asphaltic concrete and shall meet specification requirements before source approval is given.

Facility Inspection

A facility inspection shall be required in order to ascertain process and quality control capabilities of the refinery or plant blending operations.

Evaluation Time

Laboratory testing --- 2 - 4 weeks

Facility Inspection --- 2 - 4 weeks

GENERAL:

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the product will or will not be added to the Qualified Products List. The Department reserves the right to reevaluate any product at any time.

Notification in writing must be supplied to the Department in the event of a change in the source of constituents used for the asphaltic materials. The constituents include the

base asphalts and all additives (e.g., polymers, anti-strip, etc.). All constituents shall be products which have been approved for use by the Department.

TANK APPROVAL:

Asphaltic materials shall be sampled in accordance with the Materials Sampling Manual. In addition to the Materials Sampling Manual requirements, all previously approved refinery tanks shall be resampled whenever an addition is made. These tanks shall also be resampled if properties of the material are changed in any way.

For tank approval and at each resampling of asphalt cement and emulsified asphalt, the supplier shall submit a notarized certificate of analysis reporting actual test results.

PROJECT ACCEPTANCE REQUIREMENTS:

Each shipment of asphaltic material shall be accompanied by a Certificate of Asphalt Delivery (DOTD Form No. 03-22-0004).

Each transport shall be sampled in accordance with the Department's Materials Sampling Manual. Material in plant storage shall be resampled if storage exceeds 72 hours.

For plant-blended polymer modified asphalt cements, samples are to be submitted to District Laboratories at a minimum frequency of one sample for every 500 tons of polymer modified asphalt concrete produced.

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DISQUALIFICATION:

Any product may be removed from the Qualified Products List for non-conformance with specifications or performance requirements. The Department must be notified in writing of any change in product formulation or quality control process. Significant changes may require reevaluation of the product.

A product which has not had at least one approved tank sample within one year may be removed from the Qualified Products List.

REQUALIFICATION:

A product which has been disqualified and removed from the Qualified Products List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved.

DOTD MATERIALS AND TESTING SECTION COORDINATOR

Section

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